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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-10-46 **Date: 29/10/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.

Agency : Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64

Customer's Reference : EE(YNK D)E-PMT-19/WO/000023/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-10-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	22/10/2018	29/10/2018	151.59 X 149.91 X 149.00	22724	8.581	412.2	18.1	18.1
2	Drain Bottom Slab Concrete	M20	22/10/2018	29/10/2018	150.00 X 151.54 X 149.55	22731	8.077	409.2	18.0	
3	Drain Bottom Slab Concrete	M20	22/10/2018	29/10/2018	150.98 X 151.45 X 150.64	22866	8.999	414.0	18.1	

Note:

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-01-10-46** **Date: 19/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.
Agency	:	Sri. B.R.Mohan, No.10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000023/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-10-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	22/10/2018	19/11/2018	150.80 X 151.09 X 151.79	22785	8.845	542.2	23.8	23.4
2	Drain Bottom Slab Concrete	M20	22/10/2018	19/11/2018	149.54 X 149.96 X 149.73	22425	8.268	511.9	22.8	
3	Drain Bottom Slab Concrete	M20	22/10/2018	19/11/2018	149.28 X 149.91 X 151.15	22379	8.250	525.3	23.5	

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-01-10-46 **Date: 11-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division
Agency	:	Sri. B R Mohan, No.10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64
Customer's Reference	:	EE(YNK D)E-PMT-19/WO/000023/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-10-18
Environmental Conditions during test	:	Temperature 26°C Humidity 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.87	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-01-10-46** **Date: 06-11-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.
Agency	:	Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64
Customer's Reference	:	EE(YNK D)E-PMT-19/WO/000023/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ; IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-10-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-10-46** **Date: 11-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.
Agency	:	Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000023/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-01-10-46** **Date: 11-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.
Agency	:	Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64
Customer Reference	:	EE(YNK.D)E-PMT-19/WO/000023/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-10-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40mm	0	0	0	100	100
2	20 mm	225	225	4.5	95.5	90-100
3	10 mm	2845	3070	61.4	38.6	25-55
4	4.75 mm	1745	4815	96.3	3.7	0-10
5	Pan	185	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-01-10-46** **Date: 11-10-18**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.1	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.43	–
5	Bulk Density(Compacted) (Kg/l)	1.49	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.7	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-01-10-46** **Date: 11-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.
Agency	:	Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000023/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-10-18
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-10-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-01-10-46** **Date: 13-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.
Agency	:	Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000023/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-10-18
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS 1608-2005(RA 2011), IS 1599-2012
Date of test:	:	12-10-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.392	514	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.615	526	674	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	546	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-01-10-46** **Date: 19-10-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.
Agency	:	Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000023/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-10-18
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	15/10/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

Note:

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2019-01-10-46

Date: 19-10-18

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.

Agency : Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-19/WO/000023/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-10-18

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 15/10/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	165.51	200.48	1.116	21511	80.9	3.8	3.5	4.4
2	Cover Slab-2	165.49	200.52	1.122	21506	82.3	3.8	3.6	4.4
3	Cover Slab-3	165.50	200.51	1.118	21508	81.5	3.8	3.5	4.4

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-01-10-46** **Date: 19/11/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.
Agency	:	Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000023/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-10-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS. 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	19/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	22/10/2018	19/11/2018	151.96 X 149.07 X 149.25	22652	8.635	528.2	23.3	23.0
2	Drain Bottom Slab Concrete	M20	22/10/2018	19/11/2018	151.34 X 150.19 X 149.06	22730	8.451	510.0	22.4	
3	Drain Bottom Slab Concrete	M20	22/10/2018	19/11/2018	149.46 X 149.75 X 151.23	22382	8.554	523.3	23.4	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

AE

A.E.E

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 29/10/2018

Lab ID	:	**CP-2019-01-10-46**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.
Agency	:	Sri. B.R.Mohan, No.10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-19/WO/000023/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-10-18
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	22/10/2018	29/10/2018	150.17 X 151.68 X 150.76	22777	8.047	424.4	18.6	18.5
2	Drain Bottom Slab Concrete	M20	22/10/2018	29/10/2018	149.82 X 150.16 X 151.56	22496	8.745	416.3	18.5	
3	Drain Bottom Slab Concrete	M20	22/10/2018	29/10/2018	149.48 X 149.93 X 149.97	22412	8.629	408.5	18.2	

Note:

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Page 1/1
****End of Report****

CIVIL PRO Sig Date BANGALORE

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-01-10-46 **Date: 19/11/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains Near BBMP Office and Surrounding Areas in Ward No 01 Yelahanka Sub Division.

Agency : Sri. B.R.Mohan, No:10, 1st B Main, Chikkabommasandra Yelahanka Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-19/WO/000023/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-10-18

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5

Date of test : 19/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	22/10/2018	19/11/2018	150.83 X 149.41 X 150.72	22536	8.990	537.3	23.8	23.3
2	Drain Bottom Slab Concrete	M20	22/10/2018	19/11/2018	150.83 X 149.77 X 149.49	22590	8.893	514.8	22.8	
3	Drain Bottom Slab Concrete	M20	22/10/2018	19/11/2018	151.72 X 150.51 X 149.65	22836	8.360	533.8	23.4	

Note:
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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

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